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Federal Trade Antanission

"TAR," NICOTHE AND CARBON WONCXIDE OF THE SMOKE OF 370 VARIETIES OF DOMESTIC CIGARETIES

1990

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Report of "Tar," Nicotine, and Carbon Monoxide of the Emoke of 370 Varieties of Domestic Cicarettes

This report contains data on the "tar," nicotine, and carbon monoxide content of 370 varieties of digarettes manufactured and sold in the United States. The test results were submitted to the Federal Trade Commission (FTC) by the six largest digarette manufacturers in the United States. These companies are the following: The American Tobacco Company; Brown & Williamson Tobacco Corporation; Liggett Group, Inc.; Lorillard, Inc.; Philip Morris, Inc.; and R. J. Reynolds Tobacco Company, Inc.

The Tobacco Institute Testing Laboratory (TITL), a private laboratory operated by the cigarette industry, conducted most of the "tar," nicotine and carbon monoxide tests for these 370 varieties. The methodology, processes and procedures that the six cigarette companies and TITL employ are identical to those the Commission, in its own testing lab, had followed in the past. Harold Pillsbury, the former director of the PTC

^{&#}x27;The increase in the number of cigarettes reported herein over the number contained in the Commission's last "tar" and nicotine report results from including generic and private label cigarettes for the first time in this report. These cigarettes, as well as new or not widely available brands, were not tested by TITL. The test results were supplied to the Commission by the manufacturer, pursuant to compulsory precess. Results of such non-TITL testing are indicated by single asterisks for new and not widely available brands, and double asterisks for generic and private label brands.

The Commission determined in early 1987 to close its laboratory. The Commission found that closing the laboratory was necessary for several reasons. First, the operation of a highly complex testing program, even one limited to "tar", nicotine and (continued...)

laboratory and currently a contractor to the Commission, was given unrestricted access to the TITL laboratory for the purpose of reviewing the testing methodology and protocols used by the TITL and for monitoring the actual testing process.

TITL provided the results to the respective cigarette companies. The companies provided the data generated by TITL regarding their own brands to the FTC in response to requests issued by the Commission requiring submission of this information.

The cigarettes were tested using the Cambridge Method. This methodology has been approved by the FTC and used as the standard for cigarette testing since 1966. The testing was subjected to the conditions prescribed by the FTC in Federal Register, Volume 32, Number 147, Page 11178, dated August 1, 1967. With regard to the testing of carbon monoxide content, the conditions are specified in Federal Register, Volume 45, Number 134, Page 46483, dated July 10, 1980. The conditions prescribed in the FTC's 1967 announcement are the following:

^{2(...}continued)
carbon monoxide, was incompatible with the expertise of the agency. Secondly, the cost of the laboratory was significant, and the Commission would have had to commit significant additional funds in order to continue the program. Finally, the Commission was persuaded that the same information could be obtained from other sources, and other means were available to verify the accuracy of industry testing results.

 Smoke cigarettes to a 23mm. butt length, or to the length of the filter and overwrap plus

PHILLY MURKIS CO

. 2. Base results on a test of 100 cigarettes per brand, or type;

3mm. if in excess of 23mm.:

- 3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection:"
- 4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C.H. Sloan and B.J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F.J. Schultz' and A.W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content;
- 5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter;
- 6. Report "tar" content to the nearest whole milligram and nicotine content to the nearest 1/10 milligram, (32 Fed. Reg. 11178 (1967)).

The 1980 FTC announcement contained specifications regarding a new testing methodology to be used in determining the carbon

monoxide (CO) and nicotine content of cigarettes. These specifications are the following:

- Determine CO concentration using a 20-port sequential smoking machine described by H.C.
 Pillsbury and G. Herfeld at the 32nd Tobacco Chemists Research Conference, October, 1978;
- The concentration of CO will be reported as milligrams per cigarette;
- 3. The present method for "tar" and nicotine determination will be modified to use the method described in an article entitled, "Gas Chromatographic Determination of Nicotine Contained on Cambridge Filter Pads," by John R. Wagner et al., as presented at the annual meeting of the Association of Official Analytical Chemiats, October 1978. (45 Ped. Reg. 46483 (1980)).

TITL reported, and the FTC's contractor confirmed, that the tested digarette samples were obtained by an independent company under contract to TITL. Under its contract with TITL, this company was to purchase two packages of every variety of digarettes manufactured and distributed in 50 geographical locations throughout the United States. If not all varieties were available in every location, one or more packages of

cigarettes were purchased in the areas where the respective varieties were available. This procedure of selecting cigarettes for testing replicates the one used by the FTC. Cigarettes utilized in the test represented 370 varieties of the cigarettes sold in the U.S. at the time of the purchase (1988).

The "tar" and carbon monoxide figures are rounded to the nearest milligram (mg.). Those figures with 0.5 mg. or greater are rounded up, while those with 0.4 mg. or less are rounded down. The nicotine figures are rounded to the nearest tenth of a milligram. Those with 0.05 mg. or greater are rounded up; those with 0.04 mg. or less are rounded down.

Cigarette brands with assay results of "tar" and carbon menoxide below 0.5 mg. per cigarette variety and of nicotine below 0.05 mg. are recorded in the table as <0.5, and <0.05 respectively. The table does not differentiate, nor are actual "tar" ratings provided for these cigarettes, because the currently approved testing methodology is not sufficiently sensitive to report these components at lower levels.

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ı.	Now 100	PHP
2.	Now	KPHP<0.5
3.	Now	KFSP 1
4.	Now	KFMSP 1
5.	Carlton	KFHP 1
6.	Carlton	KFMSP 1
7.	Cariton 100's	PMHP 1
8.	Carlton 100's	FHP 1
9.	Carlton	KFSP 1
10.	Now 100's	PSP 2

NOTE: K - King Size, F - Filter, M - Menthol, HP - Hardpack, SP - Softpack.

³One "low-tar" brand was not not readily available in the market in 1988 and thus was not picked up and tested by TITL, and not verified by PTC. Data supplied by the company is as follows:

In descending order, those ranking the fourteen highest in "tar" content are the following:

1.	Old Gold Straights	KNFSP 27
2,	Philip Morris Commander	KNF\$P 26
3.	Players	RNFHP 25
4.	Herbert Tareyton	KNFSP 25
5.	Pall Mall	KNFSP 25
6.	Pall Mall 25's	RNPSP 25
7.	Lucky Strike	RNFSP 24
8.	Chesterfield	KNFSP 24
9.	Best Buyes	KNFSP 24
10.	Famous Value**	KNFSP24
11.	Gridlock**	KNFSP 24
12.	Pyramid*	KNPSP 24
13.	Raleigh	KNPSP 24
14.	English Ovals	RNFHP 24

Note: K - King Size, P - Filter, M - Menthol, MP - Mardpack, SP - Softpack.

^{&#}x27;Asterisked entries, (* - new or not readily available brand; ** - generic or private label brand), were not tested by TITL, and the data, supplied by the company, was not verified by the FTC.

On April 13, 1983, the Commission announced it had determined that its then testing methodology for "tar," nicotine, and carbon monoxide understated the measured deliveries for Brown & Williamson's Barclay digarettes. Therefore, Barclay digarettes would be delisted from the Commission's reports for "tar," nicotine, and carbon monoxide until a new, accurate methodology could be tested and adopted. The Commission has found that there is a significant likelihood that the same problem exists with two other Brown & Williamson varieties -- Kool Ultra and Kool Ultra 100's.

Although there have been several adaptations offered for the testing methodology, none have proven to be satisfactory. At present, other methods for testing channel ventilated digarettes are being considered by CORESTA. Commission staff is monitoring these proceedings and is continuing to search for an appropriate adaptation.

On July 25, 1986, the Commission informed Brown & Williamson that as a result of a review of data presented by Brown & Williamson regarding a "tar" and nicotine rating for two varieties of Barclay cigarettes with a new filter, the Commission

³CORESTA is a multinational European organization studying the testing of digarettes.

would authorize, under certain conditions, the following legends for advertising purposes:

- For Barclay King size:
 3 mg. "tar," .2 mg. nicotine
 avg. per cigarette as authorized by FTC.
- 2. For Barclay 100's
 5 mg. "tar," .4 mg. nicotine
 avg. per cigarette as authorized by PTC.

Brown & Williamson also agreed to provide the Commission with data, in the near future, regarding "ter" and nicotine ratings to be used in advertising for Kool Ultra and Kool Ultra 100's. Until this data is presented it has been agreed that the ratings for these two varieties will not be included in Commission reports.

The following pages present, in alphabetical order, the "tar," nicotine, and carbon monoxide data collected from the cigarette companies for 370 variaties of cigarettes sold domestically in 1988.

"TAR, " NICOTINE, AND CARBON MONOXIDE VALUES FOR 1988

BRAND NAME	DESCRIPTION 1	TAR ²	NIC ³	co ⁴
Alpine Alpine* Alpine* Alpine* Alpine* Alpine* Alpine* American filter* American filter* American Lights	KING, MEN, F, SP 100, MEN, F, SP RING, MEN, F, SP, LT 100, MEN, F, SP, LT LONG, MEN, F, HP, FULL-FLA LONG, MEN, F, HP, LT 100, F, SP KING, F, SP 100, F, SP, LT KING, F, SP	17 15 09 10 15 9 17 17	1.1 0.7 0.8 0.9 0.6 1.2	16 11 11 15 10 14 14 14
AUSTIN+ AUSTIN+ AUSTIN+ AUSTIN+ AUSTIN+ AUSTIN+ AUSTIN+ AUSTIN+ BELAIR	RING, F, SP 100, F, SP, FULL-FLA LT, KING, F, SP LT, 100, F, SP ULTRA-LT, 100, F, SP LT, MEN, KING, F, SP LT, 100, MEN, F, SP SP, F, KING, MEN	15 15 10 11 5 10	1.0 1.7 0.8 0.5 0.8	16 17 12 13 13 12 10
BENSON AND HEDGES* BENSON AND HEDGES* BENSON AND HEDGES* BENSON AND HEDGES BENSON AND HEDGES*	KING, MEN, F, SP 100, MEN, F, SP 100, MEN, F, SP, LT 100, MEN, F, SP, LT 100, MEN, F, HP, FULL-FLA LONG, MEN, F, HP, FULL-FLA LONG, MEN, F, HP, LT 100, F, SP KING, F, SP KING, F, SP RING, F, SP RING, F, SP LT, 100, F, SP LT, 100, F, SP LT, 100, MEN, F, SP LT, 100, MEN, F, SP LT, 100, MEN, F, SP SP, F, KING, MEN 100, F, SP, MEN KING, F, HP LT, 100, F, HP LT, 100, F, HP LT, 100, F, HP LT, 100, F, SP F, HP, 100 100, MEN, F, HP MEN, 100, SP, F 100, LT, F, SP 100, LT, MEN, SP DLY, ULTRA-LT, F, HP, 100 DLY, ULTRA-LT, MEN, F, HP, 100 KING, F, SP, MULTIFILTER LT, 100, F, MEN, HP		0.7 1.3 0.8 1.2 1.2 1.2 0.4 0.5 0.8	9 13 12 15 17 16 13 12 16 11 11

^{*}New brands or brands not widely available in the marketplace: data supplied by the company.

^{**}Private label cigarettes; data supplied by the company.

¹ F-Filter; MP-Non Filter; K-Menthol; HP-Hard Pack; SP-Soft Pack; Reg-Regular (70mm); K-King Size (80-85mm); 100 & 120 are in millimeters per cigarette; LT-Light; FLA-Flavor; DLX-Deluxe; 25-Number of cigarettes per pack if other than 20.

² Tar: Total particulate matter in milligrams per cigarette less nicotine and water.

³ NIC: Total alkaloids reported as milligrams of nicotine per cigaratte.

⁴ CO: Carbon monoxide reported in milligrams per cigarette.. *00* entered where CO data was not available.

<: (less than) below the sensitivity of the testing method.

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DESCRIPTION 1

TAR 2 NIC3 CO4

BRAND NAME

MARLBORO MARLBORO MARLBORO MARLBORO MARLBORO MARLBORO MARRBRITT MERRITT MERRITT MERRITT MERRITT MERRITT MERRITT MOORE MOO	MARLBORO
	T, 100, F, HF
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TAR NIC 3 CO 4

DESCRIPTION L

BRAND NAME

T N N O M M 4 H M O C) \$	निष्यंत्वाच्यक्षाधाः क्षाक्ष्यक्षिक्षाः व्यव्यक्षि निष्यंत्राच्यक्षित्वाच्यक्षाः	4444446000 69584460000
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KING, NF, SP, 25 LT, 100, F, SP LT, KING, NF, SP LT, KING, NF, SP LT, KING, LOW-TAR, SP, RED LT, KING, E, SP, RED LT, KING, F, SP, RED LT, LOO, F, SP, RED LT, KING, F, HP LT, F, KING, SP	100, F, K 2, NF, SP 11, 100, F, K 12, NF, HP 13, K 14, F, HP 14, F, HP 15, K 16, F, HP 16, F, HP 17, K 18, F, HP 18, F, HP 18, F, HP 18, F, HP 18, F, HP	A THE SERVICE TO SERVICE THE SERVICE S	F, KING, KING, KING, KING, KING, LOO, 100, 100, 100, 100, 100, 100, 100, 1
PAIL MALL PALL MALL PALL MALL PALL MALL PALL MALL PALL MALL PALL MALL PALL MALL PARL MALL PARL MALL	PARLIAMENT PHILIP MORKIS PHILIP MORRIS PICAYUNE + PLAYERS PLAYERS PLAYERS PLAYERS PLAYERS	PLAYERS PLAYERS PLAYERS PLAYERS PLAYERS PYRAMID* PYRAMID* RALEIGH RALEIGH RALEIGH RICHLAND RICHLAND RICHLAND RICHLAND RICHLAND RICHLAND RICHLAND RICHLAND RICHLAND	RICHLAND RICHLAND RICHLAND RICHLAND RITZ ROYALE* ROYALE* ROYALE*

BRAND NAME	DESCRIPTION 1	tar²	NIC3	CQ ¹
SALEM SALEM SALEM SALEM SALEM SALEM SALEM SALEM SARATOGA SARATOGA SARATOGA SARATOGA SARATOGA SARATOGA SARATOGA SALEM SARATOGA SALEM	KING, F, MEN, SP LT, 100, F, MEN, SP LT, KING, F, MEN, SP SLIM-LT, MP, 100, F, MEN 100, F, SP, MEN F, KING, MEN, SP, ULTRA-LT 100, F, SP, MEN, ULTRA-LT LT, 100, CUSTOM CASE, HP, MEN 120, F, HP 120, MEN, F, HF 100, F, SP MEN, 100, SP LT, 100, MEN, P, SP ULTRA-LT, F, SP, 100 F, 100, SP MEN, F, 100, SP F, 100, HP MEN, F, 100, SP LT, F, KING, SP LT, F, MEN, 100, SP F, 120, SP MEN, 120, F, SP F, KIMG, SP LT, F, SP LONG, LT, 100, F, SP KING, F, SP MEN, KING, SP MEN, F, KING, SP MEN, F, KING, SP MEN, F, KING, SP MEN, F, KING, SP MEN, 100, F, SP	19007551551111162221944408445835455577916608	100011000111110111101111111111100000000	711306882553311500032934406677486677319833 1111111 1111111111111111111111111111
VICEROY VICEROY VICEROY VICEROY VICEROY VIRGINIA SLIMS	KING, F, SP 100, F, SP LT, F, KING, SP LT, F, 100, SP SLIM, F, SP, 100 SLIM, MEN, 100, F, SP SLIM-LT, 100, HP, F SLIM-LT, HP, MEN, 100, F SLIM-LT, HP, 120, F SLIM-LT, HP, MEN, 120, F ULTRA-LT, 100, P, HP ULTRA-LT, MEN, 100, F, HP	16 112 15 15 15 15 15	1.1 0.9 0.9 1.1 1.1 0.7 0.7	15 15 14 14 15 15 17 7

BRAND NAME	DESCRIPTION 1	TAR ² NIC ³ CO ⁴
WINSTON	100, F, SP KING, F, SP HP, F, KING LT, 100, F, SP LT, F, KING, SP LT, 100, F, HP ULTRA-LT, 100, F, SF ULTRA-LT, F, KING, SP LT, HP, F, KING	17 1.1 19 17 1.1 16 17 1.1 17 11 0.8 13 11 0.8 13 10 0.7 12 5 0.5 9 5 0.5 8 10 0.6 12

PAGE

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TAR NICOTINE AN	D CO CONTENT OF TWO HUNDRED SEVEN			
BRANDS OF DOMEST	IC CIGARETTES TESTED BY FTC METHOD		44	=
	poing Order of Carbon Honoxide)			- <u>-</u>
ERAND	TYPE	₩.	₹	25
NAME		TAR #	KICOTIME	CARROW HOWOLT DE
		<u></u>	2	- =
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL REG SIZE; FILTER; MENTHOL REG SIZE; FILTER KING SIZE; FILTER LOOMM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER 120MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; MENTHOL	*	*	*
CARLTON	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON 100	100MM; FILTER; (HARD PACK)	1	0,1	*
CARLTON 100	100MM; FILTER; MENTHOL; (HARD PACK)	*	*	★
NUW	KING SIZE; FILTER; (HARD PACK)	*	*	*
NOM TOO	-199mm; FILTER; (HARD PACK)	量	0.1	*
CAMBRIDGE	RING SIZE: FILTER	1	0,1	1
CARSION	KING SIZE: FILTER; MENTHOL	1	0.1	1
MUCH OFFICE	AING CISE SITHER! WENTHOU	4	ñ.Ť	1
NOW 100	Juven, bilabe- nemano. Ving divel lifital Makidhe	Ţ	ñ.Ť	Ť
BENEVA T RELYING	PEC Sign Silves Applications are the	- 4	V. *	1
CARLTON	KING CITE STITES	Į.	0.1	4
KENT III	KING SIZE PILTED	2	0.1	2
NOM	KING SITE FILTED	ت 1	0.3	2
NOW 100	100HM: FILTER	3	V 3	2
TRIUMPH	KING SIZE: FILTER: MENTHOL.	- 1	0.3	2
DORAL II	KING SIZE: FILTER	ă	0.4	ั้
DORAL II	KING SIZE: FILTER: MENTHOL	é.	0.4	3
KOOL ULTRA 100 **	100MM; FILTER; MENTHOL	ă	0.4	3
TR Í UMPH	KING SIZE: FILTER	3	0.3	3
ICEBERG 100	100mm; FILTER; MENTHOL	4	0.3	4
MERIT ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	4	0.4	4
TAREYTON LIGHTS	KING SIZE; FILTER	ê	0.4	4
TRIUMPH 100	100mm; filter; menthol	4	0.4	4
TRUĒ	KING SIZE; FILTER	5	0.4	4
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; (HARD PACK)	5	0.4	5
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
CAMBRIDGE 100	100MM; FILTER	5	0.4	5
CARLTON 120	120MM; FILTER	?	0.6	5
CARLTON 120	120MM; FILTER; MENTHOL	7	0.5	Ş
KENT III 100	100MM: FILTER	4	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	Ď	0.4	5
TRIUMPH 100	LUUMM; FILTER	4	O.4	Š
TRUE	KING SIZE; FILTER; MENTHOL	5	0.4	S
CARLTON 100	100MM; FILTER	5	0,4	Þ
CARLTON 100	100MM; FILTER; MENTHOL		0.4	þ
L C M LIGHTS 100	100MM; FILTER		8.0	
HERIT ULTRA LIGHTS 100	100MM; FILTER		0.4	
	KING SIZE; FILTER; MENTHOL		0.4	
	100MM; FILTER; MENTHOL		0.4	

VANTAGE ULTRA LIGHTS

KING SIZE; FILTER

^{1 &}quot;Ter" - millipress total particulate satter lans minorine and water per dispretts.
2 Minorine total albehasia reported in millipress per dispretts.
1 Carten Marcula reported in millipress per dispretts.
2 Indicates "ter" halos 0.5 mg.; minorine halos 0.65 mg. or carbon monorial halos 0.5 mg. per dispretts.
2 Min statement in test expecting final filtre brands.

	IC CIGARETTES TESTED BY FTC METHOD		_	_
	exing Order of Carbon Honoxide)		464 444	_ 🕶
BRAND NAME	TYPE	TAR 1	NO COT I'M	CARBON MONDA IDE
VANTAGE ULTRA LIGHTS VANTAGE ULTRA LIGHTS 100 WINSTON ULTRA LIGHTS BELAIR 100 BRIGHT BRIGHT 100 L & M LIGHTS PALL MALL EXTRA LIGHT TAREYTON LONG LIGHTS 100 VIRGINIA SLIMS LIGHTS 100 VIRGINIA SLIMS LIGHTS 100 WINSTON ULTRA LIGHTS 100 CAMEL LIGHTS 100 MORE LIGHTS 100 MORE LIGHTS 100 NEWPORT LIGHTS SILVA THINS 100 TRUE 100 VIRGINIA SLIMS LIGHTS 100 BELAIR EVE LIGHTS 100 EVE LIGHTS 100 EVE LIGHTS 100 KENT GOLDEN LIGHTS KENT GOLDEN LIGHTS KENT GOLDEN LIGHTS KENT GOLDEN LIGHTS FOOL LIGHTS FOOL LIGHTS FOOL LIGHTS FOOL LIGHTS FOOL LIGHTS FARLIAMENT LIGHTS FARLIAMENT LIGHTS FARLIAMENT LIGHTS FARLIAMENT LIGHTS FARLIAMENT LIGHTS FARLIAMENT LIGHTS FOOL SILVA THINS 100 WINSTON LIGHTS BENSON & HEDGES LIGHTS 100	KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER MENTHOL; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER LOWM; FILTER; MENTHOL; (HARD PACK) LOWM; FILTER KING SIZE; FILTER	55586687758598888187802299698999999818082 1111	0.450.655766	666777777778888888889999999999999999999
LUCKY STRIKE LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER		0.8 0.\$	
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN

Microse with particulate matter less microse and water per digurants. Microse with histories reported in millioners per digurants. Carron Microside reported in millioners per digurants. Indicates "ear" below 0.5 mg.: microside below 0.05 mg. or carbon microside.

balow 0.5 mg. per cigaretto.

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

BRAND LUCRY STRIKE 100 LUCRY STRIKE 100 LUCRY STRIKE 100 MERIT MULTIFILTER MULTIFILTER MULTIFILTER MULTIFILTER MULTIFILTER MULTIFILTER MULTIFILTER MULTIFILTER MEMPORT LIGHTS 100 CLD GOLD LIGHTS RALEIGH LIGHTS RALEIGH LIGHTS SATIN 100 VICEROY RICH LIGHTS BENSON & HEDGES MING SIZE; FILTER MING SIZE; FILTER MENTHOL MING SIZE; FILTER MING SIZE;				9 4,
BRAND	TYPE	~ .,	*	3 5
NAME		5	8	35
		<u>.</u>	2	~ 3
LUCKY STRIKE 100	100mm; filter	11	0.9	10
MERIT	KING SIZE; FILTER; MENTHOL	8	0.5	10
MULTIFILTER	king size; filter	12	0.8	10
MULTIFILTER	KING SIZE: FILTER; MENTHOL	12	0.8	10
newport lights 100	100MM; FILTER; MENTHOL	10	0.8	10
OLD GOLD LIGHTS	KING SIZE; FILTER	Ś	0.8	10
RALEIGH LIGHTS	KING SIZE: PILTER	10	0.8	10
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
Benson & Redges	KING SIZE; FILTER; (HARD PACK)	15	1.1	11
BENSON & KEDGES LIGHTS 100	100MM; FILTER	10	0.7	11
CENTURY LIGHTS	KING SIZE; FILTER	È	0.7	11
CHESTERFIELD	REG SIZE; NON-FILTER	19	1.2	11
english ovals	REG SIZE; NON-FILTER; (HARD PACK)	23	1.8	11
EVE LIGHTS 120	120MM; FILTER; (HARD PACK)	14	1.1	11
EVE LIGHTS 120	120mm; FILTER; HENTHOL; (HARD PACK)	Ţ	1.1	11
KENT	KING SIZE; FILTER; (HARD PACK)	12	0.9	11 ,
KENT 100	100MM; FILTER	13	1.0	11
KOOL MILDS	King Size; filter; menthol	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING Size; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER .	10	0.7	11
MERIT 100	100MM; FILTER; MENTHOL	9	0.7	11
PALL HALL LIGHT 100	100MM; FILTER; MENTHOL	12	1.0	11
PARLIAMENT LIGHTS 100	100MM; FILTER	12	0.8	11:
PLAYERS	KING SIZE; FILTER; (HARD PACK)	13	0.8	11
PLAYERS	KING SIZE; FILTER; MENTHOL	12	0.8	11
PLAYERS 100	loomm; filter; menthol; (hard pack)	13	0.9	11
SALEM LIGHTS	KING SIZE; FILTER; MENTHOL	9	0.7	11
SALEM LIGHTS 100	100MM; FILTER; MENTHOL	ŝ	0.7	11'
SATIN 100	100MM; FILTER	10	0.9	11
VANTAGE 100	100MM; FILTER	9	0.7	11
VANTAGE 100	100MM: FILTER: MENTHOL	9	0.7	11
VICEROY RICH LIGHTS 100	100MH: FILTER	11	0.8	11
DORADO	KING SIZE; FILTER	13	0.9	12
KOOL MILDS 100	100mm; Pilter; Menthol	11	0.8	12
LARK LIGHTS	KING SIZE: FILTER	13	0.9	12
MERIT 100	100MM; FILTER	î O	0.7	12
PHILIP MORRIS	REG SIZE: NON-FILTER	21	1.2	12
PICAYUNE	REG SIZE: NON-FILTER	16	1.0	12
PLAYERS 100	100MM: PILTER: (HARD PACK)	13	0.9	12
VANTAGE	KING SIZE: FILTER	10	0.7	12
VANTAGE	KING SIZE; FILTER KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; HON-FILTER REG SIZE; NON-FILTER; (HARD PACK) 120MM; FILTER; (HARD PACK) 120MM; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER 100MM; FILTER KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER 100MM; FILTER REG SIZE; NON-FILTER REG SIZE; NON-FILTER REG SIZE; NON-FILTER REG SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER REG SIZE; NON-FILTER REG SIZE; NON-FILTER REG SIZE; FILTER REG SIZE; FILTER KING SIZE; FILTER	9	0.7	12
·				1

[&]quot;Der" - milligress total perticulate meter jam elemente est este per elemente. Ricotine total alkaleide reported in milligress per elemente. Carton Arcadón reported in milligress per elemente. Delicates "ter" balos 0.5 kg.; picories balos 0.85 kg. er carbon manadón halos 0.5 mg. per cigarette.

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	D CO CONTENT OF TWO HUNDRED SEVEN		_	_
ilacre	esing Cades of Cabbon Honoxida)			
BRAND	TYPE	-	₹.	30
name		3	MICOTIM	EARBONOM MONGKED DE
		2	氧	7.著
VIRGINIA SLIMS 100	100MM; FILTER	14	0.9	12
CAMEL	REG SIZE; NON-FILTER	21	l . đ	<u>1</u> 3
CHESTERFIELD	KING SIZE; NON-FILTER	22	1.5	13
GALAXY	KING SIZE: FILTER	14	0.9	13
上车河	RING SIZE; FILTER; (HARD PACK)	13	0.9	13
	KING SIZE; FILTER	13	0.9	13
F & W TOO	TOUMM; FILTER	14	1.0	13
LARA	KING SIZE; FILTER	14	0.9	13
LARR LIGHTS IUU	TOUMM: FILTER	13	1.0	13
NEMACKI, KER	KING SIZE; FILTER; (HARD PACK)	12	0.9	13
eran ree Kirufaan	AING SIZE; FILTER	16	Ĭ.Ţ	13
RIVALANU Orbinani 130	AING SIZE; FILTER; MENTHOL	15	1.0	13
SARATUGA 140	120MM; FILTER; (MAND PACK)	14	0.9	13
SAKATUNA 120 CM NOSIMU 166	IZUMM; FIETEN; MENTHOL; (HARU PACK)	14	0.9	13
ST. MURITA 100	LOUMM; FILTER	14	7.4	13
ST. MURITA 100	100km; FILTER; MENTHOL	14	1.1	ĻŠ
VIRGINIA GEIMA 190 VIIGANI YIRUMA 100	100MT; FILIER; MENTROL	14	0.5	4.5
AINDION FIGUID IOC	TOURS PILION PROSES AND A CONTRACTOR	11	U.5	1.5
CIMBL.	KING SIZE, SILTER, MENTHUL	10	0.3	# G
CAMPI (ICHTS 100	ning siest linds	1.0	4 - 4	i ii
SMULLER PIGNIC TAC	- MANAGET STATES - MANAGET AND	11	1 1	14
Sere juy	TANKA BILAD, KUMTILIEM; (MAKU FALK)	40	1 7	五位
EVVI	DEC CITE MANIETIMES. MENTUAL	3 G	3 3	ታቁ ታል
# \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	POU BIOD, DUNTRIBLON; MERINUU Pind eift. Etimet, urnmun:	3.6	1 0	1 12 7 /s
WIDTEADA	wing area; finited; white area;	16	3 0	±™a tà
WARI BODÓ	King cish. bilaba. Ranangi utna cish. bilaba. Ranangi	15	L.∀ T. A	3 W
MINI BABA 100	inner: elles (nerinon	12	1 0	4 T
PRILIE MUSSIS COMMINDES	YING GITE: NON-PIITED	26	1 6	1 a
ATBEALUR	WING SIZE. PILTED	13	n 9	14
PINSTON	KING SIZE: PILTER: (HARD PACK)	16	1.1	14
WINSTON INTERNATIONAL 100	100MM: FILTER: (HARD PACK)	16	1.1	1.4
BENSON & BEDGES 100	100Ms: FILTER: (WARD PACK)	16	1.0	35
BENSON & WEIGHS 100	100MM: FILTER: MENTHOL: (HARD PACE)	īĀ	1.0	15
RENSON & WEDGES 100	100mm: FILTER	16	1.0	15
BENSON & WEDGES 100	IC CIGARETTES TESTED BY FTC METHOD Ming Guda of Cabba Monthe! TYPE 100MM; FILTER REG SIZE; NON-FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL 120MM; FILTER; MENTHOL; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; NON-FILTER; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; NON-FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK)	16	1.0	īš
CAMEL	KING SIZE; FILTER; (HARD PACK)	īs	1.1	īś
ROOL	KING SIZE; FIL; MENTHOL; (HARD PACK)	16	1.1	1,5
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	lê	0.9	15
LARK 100	100MH; FILTER	15	1.0	15
MARLBORO	KING SIZE; FILTER		1.0	
MARLBÓRO 100	100MM; FILTER		1.0	
MONTCLAIR	KING SIZE; FILTER; MENTHOL	15	1.0	15

^{1 &}quot;Ter" - millignes would periodick merter last sincrine and more per diperson.
3 Microine would alkalate reported in milligness per diperson.
9 Centre Personal in milligness per diperson.
9 Indicates "ter" below 0.1 kg.; nicroise below 0.05 ag. or carbon morales below 0.5 ag. per diperson.
90 See statement in term decreasing Real Witte hereis.

•		PAC	GE	5
BRANDS OF DOMEST (Inc. BRAND NAME	D CO CONTENT OF TWO HUNDRED SEVEN IC CIGARETTES TESTED BY FTC METHOD LINE OF CAMER Execution (Control Execution) TYPE	۲ ×	COTIME	aredon Wortde
NEWPORT RED PALL MALL PALL MALL PALL MALL PALL MALL PALL MALL PALYERS SALEM 100 TAREYTON 100 WINSTON CENTURY HERBERT TAREYTON LUCKY STRIKE PALL MALL PHILIP MORRIS INTERNATIONAL PHILIP MORRIS INTERNATIONAL RALEIGH RALEIGH SPRING 100 VICEROY VICEROY SUPER LONG 100 WINSTON 100 HALT & HALF MAX 120 HAX 120 HAX 120 NEWPORT OLD GOLD STRAIGHT RALEIGH 100 TALL 120 OLD GOLD FILTER SALEM MORE 120 MORE 120 NEWPORT 100 OLD GOLD FILTER 100 BULL DURHAM	KING SIZE; FIL; MENTHOL; (HARD PACK) KING SIZE; FILTER KING SIZE; NON-FILTER 100MM; FILTER REG SIZE; NON-FILTER; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; NON-FILTER REG SIZE; NON-FILTER KING SIZE; FILTER 100MM; FILTER (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER 100MM; FILTER 120MM; FILTER KING SIZE; FILTER KING SIZE; FILTER 120MM; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER	112121111221112111111112112112122	101111010111111111111111111111111111111	11111111111111111111111111111111111111

^{1 &}quot;Ter" - Silligness total particulate system laws misotine and terms per elegatets.
2 Misotine total sikalasida reperted in milligness per elegatets.
3 Contan Misotida reperted in milligness per elegatets.
4 Indicates "ter" balow 0.5 mg.: misotine balow 0.05 mg. or employ seconds halow 0.5 mg. per elegatets.
5 In customent in text contacting final Elements.